# User manual

Version 1.0

*Linking the real world with the mobile world.*

NEOMEDIA TECHNOLOGIES™

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# About this manual

Thank you for placing your trust in the NeoReader, a product of NeoMedia Technologies and Gavitec AG – mobile digit.

This user manual features the NeoReader scanning application for camera phones based on Symbian S60 2nd and 3rd edition as well as phones running Java J2ME applications.

The manual is intended for users with experience in mobile phone technology. It comprises all information to install and run the NeoReader application on your cell phone. Furthermore, it contains important instructions to use options and read codes.

# Introduction

NeoReader is a universal 2D code mobile handset scanner allowing users to scan 2D or 1D barcodes from enabled product packages, advertisements, retail displays, publications, or any other compatible medium. Simply by scanning a code, mobile users are able to link directly to a specific web page, access services, retrieve real-time information, or place orders - bypassing long URLs, search engines, and avoiding cumbersome menus.

NeoReader features the NeoMedia patented resolution technology with the ultra-small footprint and platform independent Gavitec Lavasphere® algorithms.

NeoReader provides maximum interoperability by reading major 2D code symbologies in the market like Data Matrix codes, QR codes and Aztec codes as well as traditional barcodes and operating on a variety of handsets.

Hyperlinks compressed in 2D barcodes will provide a new way to link the physical world to the interactive electronic world, to surf the Internet anytime and anywhere, and therefore to make the economies much more efficient.

# CHAPTER 1 Installing Neo-Reader

- Switch on your mobile phone.
- Open the Internet browser of your mobile phone.
- Type the following URL http://get.neoreader.com.
- Follow the on-screen instructions.
- Download the appropriate NeoReader version for your mobile phone

# CHAPTER 2 Using NeoReader

This chapter describes the different functions and options of the NeoReader scanning application.

It also comprises information on how to enter a code directly, to preview the history and to create a personalized profile.

- **Starting the NeoReader**
- **Capturing a code symbology**
- **Entering a code directly**
- **Defining a user profile**
- **Previewing history**
- **Setting preferences**
- **Exiting the NeoReader**

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**Remark:** Use the middle scroll key to select the different options from the NeoReader navigation bar: ***Click, Enter Code, History, Exit, Preferences, About, Help, Personal.***

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# Starting the NeoReader

- Switch on your cell phone.
- Use the scroll key to navigate to the NeoReader icon in the application folder.
- Press the appropriate key to start the NeoReader application.
- The NeoReader application opens and a preview image of the capturing area is displayed.

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**Remark:** Depending on the mobile phone you are using, make sure that you open the camera lens cover on the back of the device.

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# Capturing a code

- Start the NeoReader as described above in chapter “Starting the NeoReader” on page 8.
- The NeoReader application opens and a preview image of the capturing area is displayed.
- Take care that the code is completely visible in your viewfinder (see example below).
- Your mobile phone automatically starts decoding and beeps as soon as a code is captured.

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**Important:** If you are using a mobile phone based on J2ME, you have to press the middle scroll key for ***Click*** to capture the code.

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- If the *Overlay* function is activated (See chapter “Setting preferences” on page 15 for activating the *Overlay* function), the content of the code will be shown in a white frame with blue text (e.g. a WAP address or a number referring to a URL). Setting preferences

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**Important:** If the *Zero Click* option is activated instead of the *Overlay* option, the code content will be automatically displayed to execute the local action associated to the code. To activate the *Zero Click* option, please refer to chapter “Setting preferences” on page 15

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**Remark:** If you are using a mobile phone based on Symbian S60, press the middle scroll key to switch to a higher resolution. This allows for capturing even smaller codes in the viewfinder. To zoom in and out scroll up and down using the scroll keys.

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- Once the code has been captured, press the middle scroll key for ***Select***.
- The content of the code will be displayed.
- Select ***Continue*** and press the middle key for ***OK*** if you want to process the code information and take the local action associated to code (e.g. to start the Internet browser).
- Select ***Back*** and press the middle key for ***OK*** if you wish to scan another code.
- If the code could not be recognized, ***Go Back and Try Again***.

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**Remark:** The mobile phone lenses are adjusted to give sharp images in a range from approx. 30 centimeters to infinity. This is due to the fact that the main purpose of the camera operation is to take landscape or portrait pictures. If you take a picture and the distance to the code is closer than 30 centimeters or if the code is too small, it will affect the sharpness of your image.

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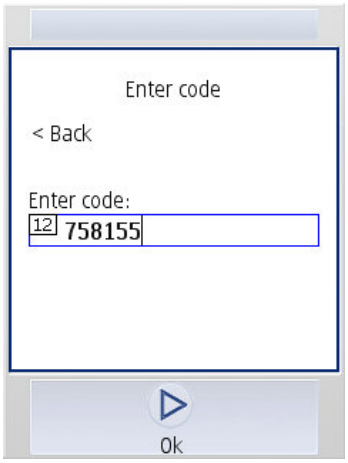
- You can also enter the code directly. Select ***Enter code directly*** and press the middle key for ***OK*** (Please refer to the corresponding chapter on page 11 for further information.).

# Entering a code using the keyboard

You can enter a code directly if it has not been automatically recognized by the NeoReader.

- Scroll to ***Enter Code*** and press the middle key.
- Type the code in the field.




---

**Remark:** To switch between letter and number mode, press and hold the appropriate key (similar for writing text messages).

---

- Press the middle key for ***OK*** if you want to proceed the code information and take the local action associated to the code (e.g. to start the Internet browser).
- Select ***Back*** and press the middle key for ***OK*** if you wish to capture another code.

# Defining a user profile

- Select ***Personal*** in the NeoReader's navigation bar and press the middle scroll key.

- Define the settings ***Language***, ***Country***, ***Gender***, and ***Age*** to personalize your profile. Use the middle scroll key to select the options from the corresponding drop-down lists, and then press the middle scroll key for ***Select***.
- Click ***Back*** to return to the NeoReader application.

# Viewing history

- Select ***History*** in the NeoReader's navigation bar and press the middle scroll key.

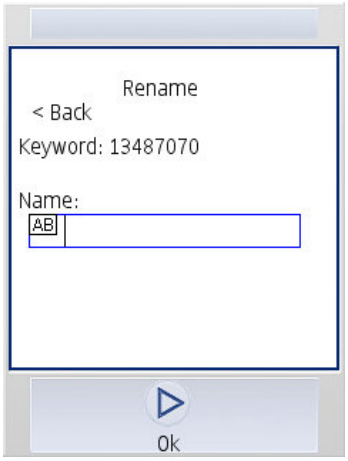
- Select a captured code by using the middle scroll key.
- Use then the navigation bar to delete, rename or start a code action.
- Select ***Back*** and press the middle key for ***Select*** to return to the NeoReader application.

## Starting a code action

- Select a captured code by using the middle scroll key.
- Scroll to ***Select*** in the navigation bar and press the middle key.
- Select ***Continue*** and press the middle key for ***OK*** to process the code information and take the local action associated to decoded code data.
- Select ***Back*** and press the middle key for ***OK*** to return to the history.

## Renaming a captured code

- Select a captured code by using the middle scroll key.
- Scroll to ***Change*** in the navigation bar and press the middle key.




- Scroll to the ***Name*** field and enter the new name.

---

**Remark:** To switch between letter and number mode, press and hold the appropriate key (similar for writing text messages).

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- Press the middle key for ***OK*** to save changes.
- Select ***Back*** and press the middle key for ***OK*** to return to the history.

## Deleting a captured code

- Select a captured code by using the middle scroll key.
- Scroll to ***Delete*** and press the middle key.
- Press the left selection key for ***Yes*** if you want to delete the selected item? The code will be removed from the history.
- Press the right selection key for ***No*** to return to the history.

## Deleting all captured codes

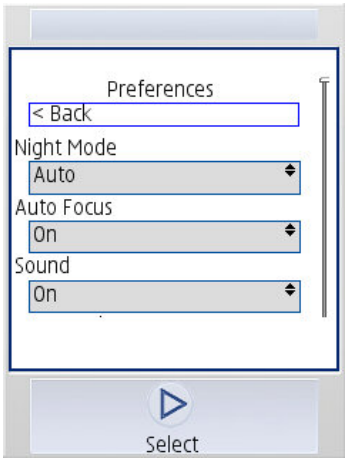
- Scroll to ***Delete All*** and press the middle key.
- Press the left selection key for ***Yes*** if you want to delete all history items? All captured codes data will be removed from the history.
- Press the right selection key for ***No*** to return to the history.

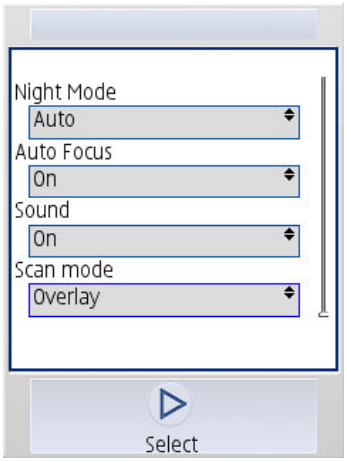
## Going back to live capture mode

- Scroll to ***Back*** and press the middle key to return to the NeoReader application.

# Setting preferences

- Scroll to ***Preferences*** in the navigation bar and press the middle key.




- To change the ***Night Mode***, scroll to ***Night Mode.*** Select ***Auto*** to activate an automatic exposure setup or select ***Off*** to deactivate the night mode. Press then the middle scroll key for ***Select***.
- Scroll to ***Auto Focus*** to activate it with ***On*** or to deactivate it with ***Off***. Press then the middle scroll key for ***Select***.
- Scroll to ***Sound*** to activate it with ***On*** or to deactivate it with ***Off.*** Press then the middle scroll key for ***Select***.
- Scroll to ***Scan mode*** to activate the ***Zero Click*** or ***Overlay*** option, and then press the middle key for ***Select.*** The ***Zero Click*** option lets the decoded information be automatically displayed to take the local action associated to the code. The ***Overlay*** option displays the decoded information as overlay and marks the corresponding code with a blue frame first. The code has to be selected before it is activated.
- Scroll to ***Back*** and press the middle key to return to the NeoReader application.

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**Remark:** J2ME based handsets allow only sound setting.

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# Exiting the NeoReader

- Scroll to ***Exit*** in the navigation bar and press the middle key to quit the NeoReader application.

# APPENDIX A Technical data

This chapter contains following information:

- **Data sheet**
- **Disclaimer**

# Data sheet

***Code types***

| | |
|---|---|
| 2D | Data Matrix ECC 200, Aztec, QR code |
| 1D | UPC/EAN (UCP-A/E, EAN-8/13, JAN), Code128 (on selected handsets) |

***Optical features***

| | |
|---|---|
| Reading distance | Depending on host system's optical characteristics |
| Reading direction | Omni-directional<br>Titled and angled codes |
| Inverse code | Light code on dark background (on selected handsets) |

***Technical features***

| | |
|---|---|
| Platforms | J2ME with JSR-135<br>Symbian S60 2nd & 3rd Edition |
| Lighting | Ambient light (depending on host device) |
| Auto-adjustment | Compensation of lens distortion<br>Automatic code discrimination |
| Live-stream decoding | Zero-Click™ live-stream decoding (patent pending) for easy targeting and quick decoding (only available on selected handsets) |
| Scanning features | Digital zoom and auto-focus |
| Multi-lingual | English, German, French, Spanish, Portuguese, and Italian |

# Disclaimer

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